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[54] **ELECTROPHORETIC DISPLAY PANEL
WITH TAPERED GRID INSULATORS AND
ASSOCIATED METHODS**

[75] **Inventors:** **Frank J. DiSanto**, North Hills; **Denis
A. Krusos**, Lloyd Harbor, both of
N.Y.

[73] **Assignee:** **Copytele, Inc.**, Huntington Station,
N.Y.

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313/505

[58] **Field of Search** 345/107, 105, 106, 84;
359/291-297; 437/228, 235; 313/505

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Primary Examiner—Ulysses Weldon

Assistant Examiner—Regina Liang

Attorney, Agent, or Firm—Plevy & Associates

[57]

ABSTRACT

A triode-type electrophoretic display includes a fluid-tight envelope for containing an electrophoretic fluid with suspended pigment particles and has a glass viewing window upon which has been deposited a plurality of parallel cathode members. A plurality of elongated insulator strips are interposed between and electrically insulate the cathode members from a plurality of parallel vertical grid members. Each of the strips support a corresponding grid member thereon a selected distance from the cathode members and tapers at a least one end such that the grid member is supported by the window at that end. The window provides a stable substrate for wire bonding the grid members to display driver circuitry.

24 Claims, 3 Drawing Sheets